	Application No.	Applicant(s)	
	10/652,018	LIU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Naum B. Levin	2825	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is:	n this application. If not included unication will be mailed in due co	ourse. THIS
1. X This communication is responsive to Application filed on	<u>08/29/2003</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-39</u> .			
3. 🗵 The drawings filed on 22 December 2003 are accepted b	y the Examiner.		
4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted by the Notice of Draftsperior (a) including changes required by the Notice of Draftsperior (b) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date (b) Including changes required by the labeled as such in DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENTATION.	ve been received. ve been received in Application to comments have been received. To of this communication to file MENT of this application. mitted. Note the attached EX ves reason(s) why the oath of the submitted. The submitted of the comment of the header according to 37 CF osit of BIOLOGICAL MATION.	on No Indicated in this national stage application of the areply complying with the requestion of the drawings in the front (not the beta 1.121(d). ERIAL must be submitted. No	irements TICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ /08), 7. ☐ Examiner's	oformal Patent Application (PTO- ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowa VUTHE SIEK PRIMARY EXAMINER	,

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

DETAILED ACTION

This office action is in response to application 10/652,018. Claims 1-39 remain pending in the application.

Allowable Subject Matter

- 1. Claims 1-39 are allowed over prior art of record.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or suggest or render obvious:

a method of identifying high quality design points in a circuit design comprising: (e) identifying a subset of said design points; (f) for each design point identified in step (e), determining a domination cost as a function of how favorable at least one performance of said design point is with respect to the corresponding performance of at least one other design point identified in step (e); (g) for each design point identified in step (e), determining a tradeoff cost by combining the original cost and the domination cost for said design point; (h) subject to the performance specifications and the circuit topology associated with each design point of a subset of the identified design points. generating another plurality of design points for the circuit, wherein each thus generated design point is generated from at least one of the subset of the identified design points, and at least one device variable of each thus generated design point has a value that is different than a value of said device variable for the at least one design point from which said thus generated design point was generated; (i) for each design point generated in step (h), determining an original cost that is related to the degree of correlation between the performance specifications and the performances of the circuit associated with said

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design point; (i) for each design point generated in step (h), determining a domination cost as a function of how favorable at least one performance of said design point is with respect to the corresponding performance of at least one other design point; (k) for each design point generated in step (h), determining a tradeoff cost by combining the original cost and the domination cost for said design point; (I) identifying each design point generated in step (h) that has a tradeoff cost that is the same or more favorable than the most favorable tradeoff cost determined before the preceding iteration of step (k): and (m) if identifying additional design points is desired, repeating steps (h) through (l).

This method utilizes identifying high quality design points in the circuit design. where tradeoff relationships between competing performance specifications are considered.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naum B. Levin whose telephone number is 571-272-1898. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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NL

VUTHE SIEK
PRIMARY EXAMINER